



Systems for
Waterproofing,
dehumidification,
wetproofing



Certified Quality System since **FEBRUARY 1993**

From Project to Jobsite

MACROPORE® INTONACO

BREATHABLE RENOVATION RENDER

CE approved EN 998-1/R

- Description** MACROPORE® INTONACO is a pre-mixed renovation render, based on hydraulic lime, reactive silica, selected aggregates, air entraining agents, and water-repellent admixtures
- Advantages/ characteristics** Accelerates the evaporation of building humidity and rising dampness driven by a system of CAPILLARY POROSITY which interconnects a fixed percentage of AIR-BUBBLES of CALIBRATED dimensions. Provokes the change of building water to water VAPOUR. Creates DRY SURFACES even over WET WALLS and cures the wall due to the high TRANSPIRABILITY of the system. The Macropore system dries wet and unhealthy building by transforming the building water into water vapour, which is evaporating very fast through the porous sanitising system. No efflorescence of building salts, no entrance of rain water. A very "natural" system, without toxic salts, or other non ecologic elements. The products have highly innovative features in formulation and performance, and, at the same time, are based on standards developed by the Commission "**Cultural Heritage - NORMAL from UNI**", within the Working Group on "**Methodologies for the characterization of historical mortars and restoration**".

Fields of use The system IGROTAC ISO N. 1 (MACROPORE® RINZAFFO + MACROPORE® INTONACO + RASTUCCO RASATURA) or where the above mentioned advantages are required.

Method of use **Preparation of the wall substrate.**

- For existing buildings, suffering from rising dampness, remove existing mortars at least 50 cm above the humidity level or degraded zone.
- Remove all the incoherent, dusty particles, efflorescence, and take care to remove the jointing mortar between the bricks when degraded.
- When large concentrations of building salts are present, remove them brushing or scraping till a clean wall is obtained.
- Apply a suitable dry cleaning method to prepare the substrate.
- The levelling out of the façade (using eventually guiders), filling of any cavities, etc, shall be done immediately after the substrate preparation, using MACROPORE® RINZAFFO , prepared at the proper consistency (use for this purpose less water than indicated on the bag).

PREPARATION AND APPLICATION OF THE MACROPOROUS MORTAR

Prepare the render by adding the powder to the water (about 6 litre of water per bag of 25 kg). Mix the time needed to obtain a stable and creamy consistency. A mixer with vertical axes is recommended or those with double heliocentric mixing arm, in order to obtain in an efficient way a creamy paste with a wet density between 1,3 and 1,5 Kg/litre.

With a minimum of attention during the first mixes, the criteria can easily be adapted, and guarantee a well consistent product. Work out the differences in level on the wall, using preferably MACROPORE® (or use wood rules to level the wall perpendicular)

Apply the product by trowel up to a total thickness of 2 cm or more.

DO NOT try to smooth the product by trowel or screeding bar. Leave the surface rough and let cure as such. Apply the following day a decorative/smoothing layer with RASTUCCO RASATURA.

Please consult technical data sheet "Recommendation for the correct use of MACROPORE"



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Remarks Binder systems, based on hydrated lime have an alkaline effect. It is advised to wear protective gloves, goggles and protection of the skin. Handle the product like all normal cement based products.

Information according to 2003/53/CE:

Storage : The product can be kept for at least 12 months if stored in dry and protected conditions, in the original packaging, between +5° C and + 35° C.

Packaging Bags of 25 Kg.

Characteristics technical data (typical values)

- | | | |
|---|-----------------------|------------------------------------|
| • Static elasticity modulus | N/mm ² | 3.000÷5.000 |
| • Compressive strength (28 days) | N/mm ² | 2÷4 |
| • Flexural strength (28 days) | N/mm ² | 1÷2 |
| • Water vapour permeability coeff.(EN 1015-19) | μ | ≤ 15 |
| • Water absorption coefficient due to capillary action (EN 1015-18) | | ≥ 0,3 Kg/m ² after 24 h |
| • Thermal conductivity | W/mK | 0,38÷0,42 |
| • Mass of a volume unit - fresh mixing | Kg/m ² /mm | 1,38 |
| • Mass of a volume unit - hardened mixing | Kg/m ² /mm | 1,27 |
| • Consumption | Kg/m ² /mm | 1,2 |
| • Mixing water | % | 24 |
| • Workability time (20 °C) | h. | > 1 |
| • Initial setting time (20 °C) | h. | > 4 |
| • Min. temperature of application | °C | +2 |
| • Colour | | White or light grey |

Safety indications Read carefully the safety indications on the packaging, or consult the relevant Material Safety Datasheet of this product.

The above information is based on our best experiences and lab results and on results of the application of the product in various fields. Tecnochem Italiana is not responsible for negative performances due to not proper use of the product or for defects due to elements not connected with the quality of the product included wrong storage. Technical characteristic in this technical data sheet are up-to-dated periodically .Revision date of this technical data sheet is indicated below

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